NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) **San Angelo (SJT)**
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR: MONTH **November** YEAR **2004**
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		SIGNATURE **Jason Johnson** DATE **December 15, 2004**

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)

[] No flood stages were reached in the HSA this month.

West Central Texas received above normal precipitation during the month of November. Both Abilene and San Angelo experienced the second wettest November on record. What makes this month most notable, though, is that the precipitation saturated the soils and generated widespread runoff across the HSA. Many of the streams and rivers were brought back to life and area reservoirs experienced gains in pool levels.

A very slow moving upper level disturbance near the Baja Peninsula of Mexico produced impulses of energy to the area. These impulses created widespread showers and thunderstorms over the area beginning on the 13th, and as the upper level system moved across Northern Mexico, the rainfall continued through the 17th.

The rainfall began to gradually saturate the ground and continued long enough to produce runoff across most of West Central Texas. From the 13th through the 17th, much of the HSA received three to five inches of rain. Isolated areas received five to seven inches of rain. The rainfall generated runoff in normally dry to low flowing creeks and rivers. The North, Middle and South Concho Rivers were running at or near bankfull levels by the 17th. Runoff from these rivers collected in O.C. Fisher and Twin Buttes Reservoirs. O.C. Fisher Reservoir climbed about 12 feet and collected about 6,000 acre-feet of water. The USGS equipment started to report data again on the north pool of Twin Buttes Reservoir. The north pool of the reservoir increased over 14 feet and collected about 15,000 acre-feet of water.

Minor flooding occurred on the Colorado River above Silver as the water level rose to just over 15 feet on the 18th. This water flowed into E.V. Spence Reservoir and increased the pool level by about 10 feet and increased in volume by about 37,000 acre-feet. Downstream of E.V. Spence Reservoir along the Colorado River, only minor rises occurred. Elm Creek at Ballinger reached bankfull on the 17th. The water from the Concho and Colorado Rivers and Elm Creek flowed down and collected in O.H. Ivie Reservoir, which brought the pool level up over six feet and increased its capacity by 51,000 acre-feet.

Bankfull flows occurred along the San Saba River at Menard and near Brady on the 17th. The San Saba River at San Saba was flowing out of its banks when the water from Menard and Brady arrived on the 18th. This additional water created moderate flooding on the San Saba River at San Saba on the 18th. Nearby, the Pecan Bayou was running bankfull from runoff generated locally and from the Lake Brownwood watershed. Lake Brownwood reached 4.4 feet above the emergency spillway late on the 17th. Flood waters running down the Pecan Bayou and the San Saba River caused the Colorado River near San Saba to reach bankfull levels on the 18th.

The most significant flood event occurred along the Llano River near Junction. Heavy rains over already saturated grounds in Sutton, Kimble and Edwards Counties created flood waves along the North and South Llano Rivers. The flood waters combined near Junction creating major flooding on the 17th. The Llano River near Junction climbed to around 31 feet early on the 17th. County officials closed roads in the area before the crest occurred. The flood wave moved down the Llano River and caused moderate flooding near Mason. The Llano River near Mason reached 21 feet late on the 17th. Flooding of ranchland, fences and roads were reported from the flooding along the Llano River.

Notable rises were observed on creeks and rivers across the Big Country. The Clear Fork of the Brazos River near Fort Griffin managed bankfull flows on the 17th. Bankfull flows along tributaries to Fort Phantom Hill Reservoir helped to increase its capacity by about 20,000 acre-feet. Hubbard Creek Reservoir improved its capacity by collecting about 65,000 acre-feet of water from the rainfall.

The San Angelo Regional Airport received 5.18 inches of rain in November, which was 4.08 inches above the monthly normal rainfall of 1.10 inches.

The Abilene Regional Airport received 5.12 inches of rain in November, which was 3.82 inches above the monthly normal rainfall of 1.30 inches.

Rainfall Totals for November, 2004:

Station Name	Amt (in)	Station Name	Amt (in)
Abilene 2	5.14	Mason	4.30
Acton Ranch	3.79	Menard	5.96
Albany	9.88	Merkel 12SW	5.95
Anson	6.21	Oak Creek Lake	4.73
Ballinger 2NW	6.90	Ozona 1SSW	5.01
Brady	4.87	Ozona 22SE	4.04
Brownwood	5.76	Paint Rock	8.96
Burkett	6.57	Putnam	9.05
Coleman	9.68	Richland Springs	4.30
Concho Park	M	Robert Lee	4.48
Eden	8.04	Roscoe	4.62
Eldorado	6.19	Rotan	5.06
Eldorado 10W	M	San Angelo WFO	6.22
Eldorado 12N	9.45	San Saba 7NW	5.85
Fort Griffin	8.40	Silver Valley	8.20
Fort McKavett	5.77	Sonora	5.01
Funk Ranch	M	Stamford	4.60
Glen Cove	7.23	Sterling City	5.89
Hamlin	4.51	Sterling City 8NE	6.52
Haskell	6.14	Taylor Ranch	5.13
Hords Creek	8.49	Telegraph	5.74
Humble Pump	M	Throckmorton 7NE	6.59
Junction 4SSW	4.27	Trent	4.08
Lake Abilene	M	Water Valley	5.00
Lawn	6.23	Water Valley 11NE	6.38
London 3N	3.76	Winters	5.71
Maryneal 4SW	4.88	Woodson	9.71

(M) *Missing data*

Reservoir Conditions (end of November, 2004)

Reservoir	Conservation Capacity (Ac-Ft)	Current Capacity (Ac-Ft)	Percent of Capacity (%)
Fort Phantom Hill	70,030	68,865	98
Lake Stamford	52,700	36,600	69
Hubbard Creek Lake	317,800	186,710	59
Hords Creek Lake	8,800	7,480	85
Lake Brownwood	131,428	131,428	100
E.V. Spence	488,760	79,170	16
O.C. Fisher	119,200	7,620	6
O.H. Ivie	554,340	229,900	41

Hydro Products Issued

FFA = 14
FFW = 6
FFS = 2
FLS = 22 (Urban and Small Stream Advisories)
FLW = 11
FLS = 22 (Flood Statements for Flood Warnings)
RVS = 42